AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A connector segment for connecting a combustor liner and a transition piece in a gas turbine comprising a substantially cylindrical body of double-walled construction including radially inner and outer walls and a plurality of discrete cooling channels extending axially along the segment, between said radially inner and outer walls, said cooling channels defined in part by radially inner and outer surfaces, wherein at least one both of said radially inner and outer surfaces is are formed with an array of concavities, each having a diameter D with center-to-center distance between adjacent concavities is equal to about 1.1-2D; and further wherein a ratio of channel height to concavity diameter D is in a range of 0.25 to 5.



- 2. (Cancelled).
- 3. (Original) The connector segment of claim 1 and further comprising axially spaced holes in said outer wall communicating with at least some of said cooling channels.
- 4. (Original) The connector segment of claim 1 wherein said concavities are semispherical in shape.

- 5. (Original) The connector segment of claim 4 wherein said concavities are arranged in staggered rows.
- 6. (Original) The connector segment of claim 1 wherein said concavities are circular, and have a diameter D, and wherein a depth of said concavities is equal to about 0.10 to 0.50D.
 - 7. (Cancelled).
 - 8. (Cancelled).
 - 9. (Cancelled).
 - 10. (Cancelled).
- 11. (Original) The connector segment of claim 1 including a plurality of axially spaced impingement holes in each channel.
- 12. (Currently Amended) A connector segment for connecting a combustor liner and a transition piece in a gas turbine, the connector segment comprising a cylindrical double-walled body including radially inner and outer walls and a plurality of cooling channels extending axially along the segment, between said radially inner and outer walls, said cooling channels defined in part by radially inner and outer surfaces; a plurality of axially spaced holes in said outer wall communicating with said plurality of

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cooling channels wherein both of said radially inner and outer surfaces are formed with an array of concavities; and wherein said cooling channels have an aspect ratio of from 0.2 to 1 and a ratio of channel height to concavity diameter is in a range of 0.25 to 5; and further wherein a center-to-center distance between adjacent concavities is equal to about 1.1-2D.

13. (Original) The connector segment of claim 12 wherein said concavities are semispherical in shape.

14. (Original) The connector segment of claim 12 wherein said concavities are arranged in staggered rows.

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15. (Original) The connector segment of claim 12 wherein said concavities are circular, and have a diameter D, and wherein a depth of said concavities is equal to about 0.10 to 0.50D.

16. (Cancelled).

17. (Cancelled).

18. (Cancelled).

19. (Cancelled).

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- 20. (Cancelled).
- 21. (Cancelled).
- 22. (Cancelled).

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- 23. (Previously Presented) The connector segment of claim 1 wherein said ratio of channel height to concavity diameter is in a range of .5 to 1.
- 24. (Previously Presented) The connector segment of claim 12 wherein said ratio of channel height to concavity diameter is in a range of .5 to 1.